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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,214	11/13/2003	Susan E. Bach	970520A	8470
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SUITE 825 NEW YORK, N	NY 10177-0899		ART UNIT	PAPER NUMBER
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MO	NTHS	03/27/2007	PAI	PER

Please-find-below-and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

4) Claim(s) 1-3.12 and 14-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-3 and 12 is/are rejected. 7) Claim(s) 1-4-16 is/are objected to. 8) Claim(s) 1-4-16 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.			, &
## Description of Part Phuong Phu 2611		Application No.	Applicant(s)
Phuong Phu 2811 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. If NO peled for reply is expelled above, the maximum statutory period will apply and will expire 51K (8) HOWTHS from the mailing date of this communication. If NO peled for reply is expelled above, the maximum statutory period will apply and will expire 51K (8) HOWTHS from the mailing date of this communication. If NO peled for reply is expelled above, the maximum statutory period will apply and will expire 51K (8) HOWTHS from the mailing date of this communication, even if femely filled, may reduce 3 may expelled the mailing date of this communication, even if femely filled, may reduce 3 may expelled the mailing date of this communication, even if femely filled, may reduce 3 ma		10/712,214	BACH, SUSAN E.
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Estatistics of time may be available under the provisions of 37 CFR 1.136(a). In the execution, a steply to timely filed. - Estatistics of time may be available under the provisions of 37 CFR 1.136(a). In the execution, a steply to timely filed. - Estatistics of time may be available under the provisions of 37 CFR 1.136(a). In the execution, a steply to timely filed of the provision of 1.130 CFR 1.130 cfr. 1.1		Phuong Phu	2611
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1) ⊠ Responsive to communication(s) filed on <i>Q7 January 2004</i> . 2a) ☐ This action is FINAL. 2b) ⊠ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☑ Claim(s) 1-3.12 and 14-16 is/are pending in the application. 4a) Of the above claim(s) is/are ending in the application. 5) ☐ Claim(s) 1-3 and 12 is/are rejected. 7) ☑ Claim(s) 1-4.16 is/are objected to. 8) ☐ Claim(s) 14-16 is/are objected to. 8) ☐ Claim(s) 14-16 is/are objected to by the Examiner. 4Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 10 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 30 ☐ Information Disclosure Statement(s) (PTO/SBIO8)	A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL - Extensions of time may be available under the provisions of 3' after SIX (6) MONTHS from the mailing date of this communic - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply with, - Any reply received by the Office later than three months after the set of	LING DATE OF THIS COMMUNI 7 CFR 1.136(a). In no event, however, may a ation. ry period will apply and will expire SIX (6) MO by statute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
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11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)	Applicant may not request that any objection	n to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).
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Application/Control Number: 10/712,214

Art Unit: 2611

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1-3 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 1, lines 5-7 recites the limitation "a tap weight update calculation unit coupled to the equalizer and adapted to determine *constant* and predetermined tap weight updates for use in adjusting the tap weights during operation of the equalizer". This limitation is not disclosed in the disclosure of the instant application. As illustrations shown in figures 2 and 3, the "tap weight update calculation unit" is adapted to determine adaptive "tap weight updates", namely, the "tap weight updates" being non-constant "tap weight updates". The limitation is suggested to be changed to --a tap weight update calculation unit coupled to the equalizer and adapted to determine *adaptive* tap weight updates for use in adjusting the tap weights during operation of the equalizer--.

Claims, depended on claim 1, therefore, also rejected.

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claims 1-3 and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, line 5 recites the limitation "a tap weight update calculation unit coupled to the equalizer". It is unclear whether the input of the "tap weight update calculation unit" is coupled to the input or output of the "equalizer" or whether the output of the "tap weight update calculation unit" is coupled to the input or output of the "equalizer". The limitation is suggested to be changed to --a tap weight update calculation unit *having an input coupled to the output of* the equalizer--.

Similarly, claim 3, lines 1-3 recites the limitation "a demodulator *coupled* to the equalizer". The limitation is suggested to be changed to --a demodulator *having an input* coupled to the output of the equalizer--.

Similarly, claim 12, line 5 recites the limitation "a demodulator *coupled* to the equalizer". The limitation is suggested to be changed to --a demodulator *having an input coupled to the output of* the equalizer--.

Claims, depended on claim 1, are therefore also rejected.

Allowable Subject Matter

- 5. Claims 14-16 are allowed.
- 6. Claim 12 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

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Conclusion

7. References 4575857, 4695969, 5130799, 5648987, 4811360 and 4803438 are cited because they are pertinent to the claimed method and associated apparatus.9

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phuong Phu Primary Examiner Art Unit 2611

PHUONG PHU PRIMARY EXAMINE

Phumphin Phuong Phu 03/20/07

Notice of References Cited Application/Control No. | Applicant(s)/Patent Under Reexamination BACH, SUSAN E. Examiner | Art Unit | Page 1 of 1

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*	В	US-4,695,969	09-1987	Sollenberger, Nelson R.	. 708/323
*	С	US-5,130,799	07-1992	Iga et al.	348/614
*	D	US-5,648,987	07-1997	Yang et al.	375/232
*	E	US-4,811,360	03-1989	Potter, William J.	375/231
*	F	US-4,803,438	02-1989	Mizoguchi, Shoichi	329/310
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
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